cue

Wireless Touch Panel

User Manual

11.02.2014

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UM051_01_Wireless_Touch_Panel
11.02.2014

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Introduction

Overview

The wireless touch panel airCUE-7 combines functionality such as multimedia integration, lighting automation, security monitoring, entertainment integration, and meeting & presentation control. The 7" active matrix touch screen display offers resolution 800 x 480 pixels and it produces stunning true color images. Wireless network Wi-Fi communication provides easy network integration. The case is machined from a single billet of aluminium, increasing weight but greatly improving the rigidity of the device. Fully compatible with CUE controllers, this touch panel provides the ultimate one-touch solution for meeting rooms, conference rooms, boardrooms and high-tech homes.

Features

- Wireless hand held touch panel
- 7" active matrix touch screen display
- Resolution 800 x 480 pixels, colors 32-bit (True Color)
- Projective capacitive touch overlay
- 802.11b/g Wi-Fi 2-way wireless communication
- One multifunctional button
- Built-in microphone, speaker, light and motion sensors
- Built-in IR transmitter and receiver
- Internal Li-Ion rechargeable battery pack
- Aluminium enclosure
- Tabletop charging station included
- Web server and Admin Web pages for setup
- Wall Charging Station available

Models

Model	Product Code	Description
airCUE-7	CS0374	Wireless 7" touch panel with tabletop charging station

Available Accessories

Model	Product Code	Description
Wall Charging Station 7	CS0438	Wall mount charging station for airCUE-7. Has to be ordered separately.

Programming

The airCUE-7 has to be programmed using Cue Visual Composer.

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Box Contents

Product Name	airCUE-7
Product Code	CS0374
airCUE-7	1
Tabletop charging station	1
Power supply 12 VDC	1
Cleaning tissue	1
CE declaration	1
RoHS declaration	1
Data Sheet	1
Cue System Connector Wiring	1

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Specifications

Touch-screen display
- TFT color active matrix LCD with LED backlit
- Size 7” / 177.8 mm diagonal, wide screen
- Resolution 800 x 480 pixels (WVGA)
- Display colors 32-bit (True Color)
- Transparency 8-bit Alpha blending
- White luminance 400 cd/m2
- Contrast ratio 1000 : 1
- Pixel pitch 0.19 mm
- Viewing angle ±80° horizontal, ±80° vertical
- Projective capacitive touch overlay

Built-in sensors
- Light sensor for automatic backlight dimming
- Motion sensor for automatic backlight switch on

Buttons
- Multifunctional for power and programmed functions
- Reset
- Set factory default

Memory
- 256 MB RAM
- microSD Card min. 4 GB (upgradable)

Software
- XPL2 runtime for application created in Cue Visual Composer
- Admin Web for setup

Video
- Streaming video preview

Audio
- Built-in microphone
- Built-in speakers

System communication
- Wireless network, IEEE 802.11b/g Wi-Fi 2.4 GHz

Infra-red
- IR receiver for IR capture
- IR transmitter for direct control

Battery
- Built-in Li-Ion rechargeable battery pack 7.2 VDC / 1 950 mAh

Mode	Display	Wi-Fi	CPU	Battery Life
Power On	On	On	On	4 hours
Display Off	Off	On	On	16 hours
Standby	Off	Off	On	50 hours
Power Off	Off	Off	Off	2 months

Power supply for charging
- 12 VDC (+/- 20%) / 11 W, power jack connector

Physical
- Aluminium enclosure
- Dimensions 198 x 145 x 27 mm / 5.7” x 5.9” x 1.1”
- Weight 0.85 kg / 0.4 lb

Environment conditions
- Operating temperature 10° to 40° C
- Storage temperature 0° to 60° C
- Relative humidity 10% to 90% non-condensing

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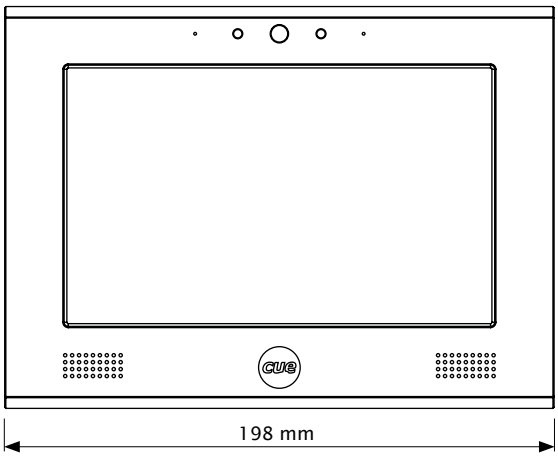
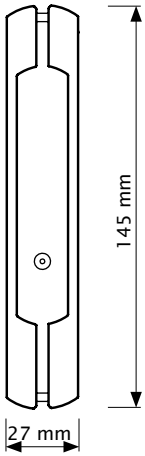
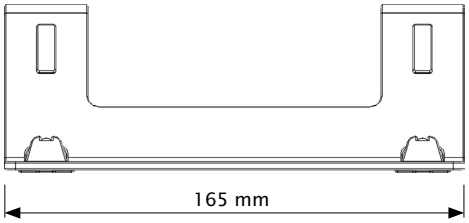
Mechanical

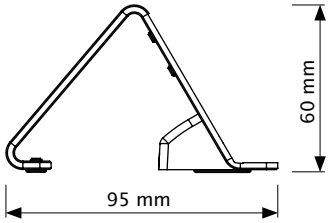
Touch Panel



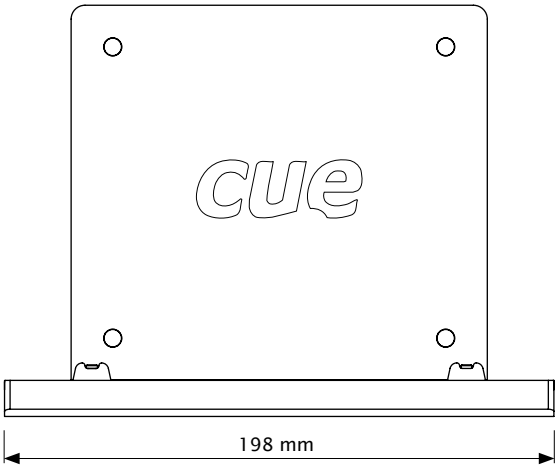


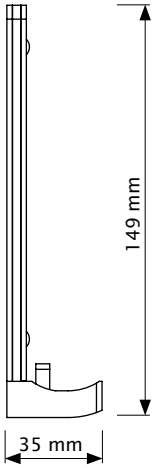
Tabletop Charging Station





Wall Charging Station 7





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Cleaning the Touch Panel

You should clean the touch panel screen overlay after each day's use.

Materials required are

- Two clean, soft texture cloths (cotton).
- Spray bottle of cleaning solution without alcohol (window cleaner).
- Aluminium parts should be cleaned using a special cleaning solution.

Steps are

1. Turn the touch panel off.
2. Spray a small amount of the cleaning solution onto one of the cloths.
3. Clean the touch panel overlay with the damp cloth.
4. Wipe the touch panel overlay with the dry cloth.

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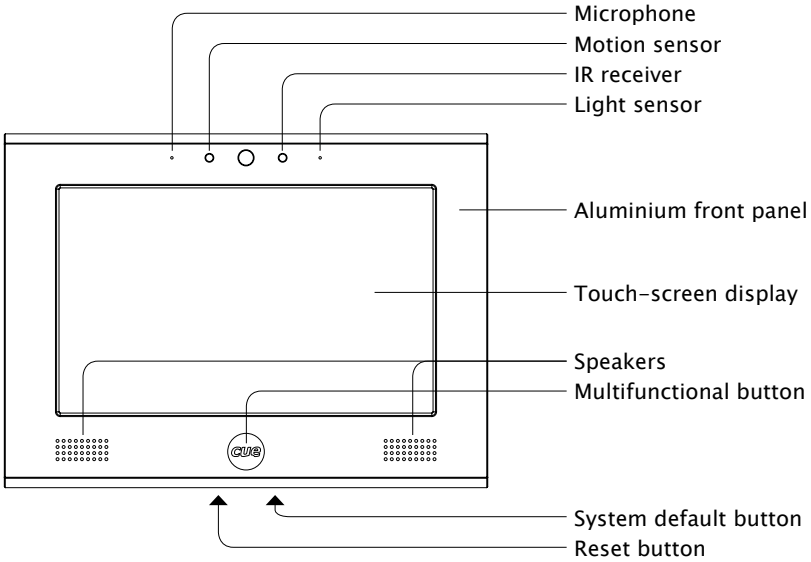
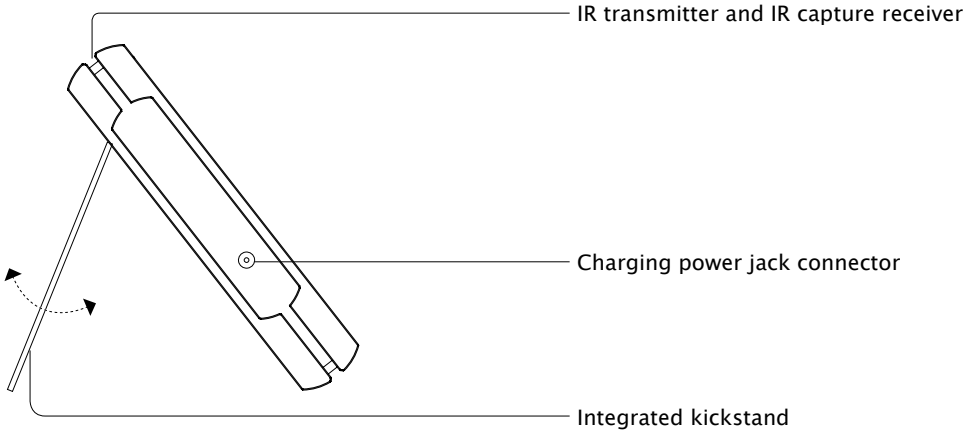
Physical Description





Microphone

The functionality depends on a firmware version. Audio from microphone can be captured to WAV file and microphone can be used for intercom functionality. Read more in CVC Help.

Motion sensor

The Motion sensor resumes touch panel from Backlight Saver mode. This functionality can be enabled / disabled using On Screen Display or Admin Web.

IR Receiver

The built-in IR sensor carries the same functionality as irCUE Receiver or irCUE Receiver 485. This means that touch panel can receive IR signal from CUE wireless IR control panels without the need to use any external IR receiver.

Light Sensor

The Light Sensor automatically adjusts display backlight according ambient light level. This function has to be enabled using On Screen Display or Admin Web.

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Touch-screen display

Touch-screen display with active matrix color LCD and projective capacitive touch overlay.

Speakers

The built-in stereo speakers allows to play sounds stored in the touch panels and can be used for intercom functionality. Read more in CVC Help.

Multifunctional button

By default this button serves for

- Switch on the touch panel
- Activate On Screen Display where touch panel settings is provided and power off or standby mode can be selected.

See more about touch panel power modes in appropriate section.

Functionality of this button can be changed in a control application. In this case the functionality has to be described in application user manual.

Reset Button

When pressed the reset of the unit is performed followed by operating system boot. A thin screwdriver is needed for press of this button.

Factory Default Button

When pressed the factory default function is performed. For factory default values see chapter Factory Default and System Default. A thin screwdriver is needed for press of this button.

IR Capture Sensor

The built-in IR sensor allows to capture IR codes directly by touch panel. For more details see chapter IR Capture.

IR Transmitter

IT Transmitter allows to transmit IR codes directly from a touch panel. IR controlled devices can be controlled directly without controller.

Charging Power Jack Connector

This connector can be used for direct power supply connection for charging without tabletop or wall charging station.

Integrated Kickstand

Integrated kickstand allows to use wireless touch panel as tabletop panel on any level surface The kickstand can be easily hidden.

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Battery and Charging

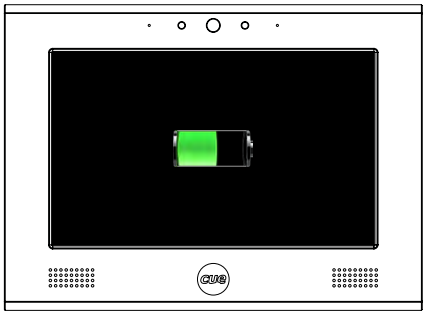
Overview

The airCUE-7 has an internal Li-Ion rechargeable battery pack 7.2 VDC / 1 950 mAh. Battery life for different power modes are as follows.

Mode	Display	Wi-Fi	CPU	Battery Life
Power On	On	On	On	4 hours
Display Off	Off	On	On	16 hours
Standby	Off	Off	On	50 hours
Power Off	Off	Off	Off	2 months

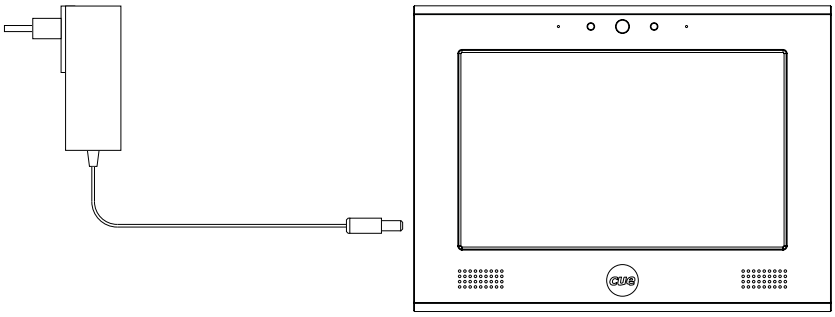
For battery charging, the touch panel requires power from an external power supply.

If an external power supply is connected, charging is indicated on the screen for aprox. 3 seconds. The icon indicates current battery capacity in following steps – 0%, 20%, 40%, 60%, 80% and 100%.



External Power Supply

The standard CUEadapter is delivered with the airCUE-7. Connect power supply power jack connector to the power supply connector located on the left side of airCUE and attach power supply to a power outlet.



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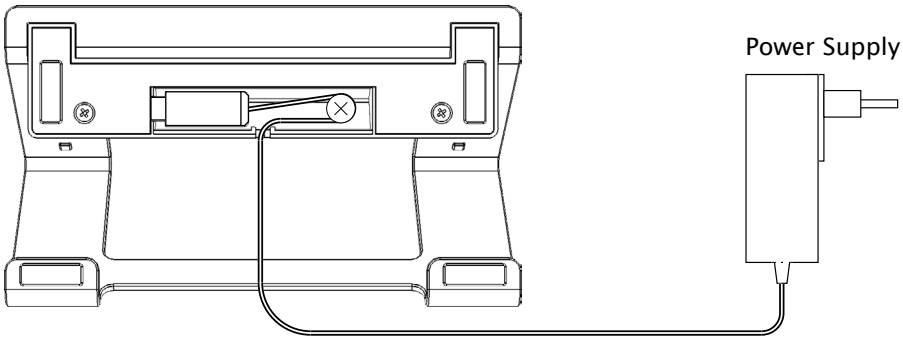
Tabletop Charging Station

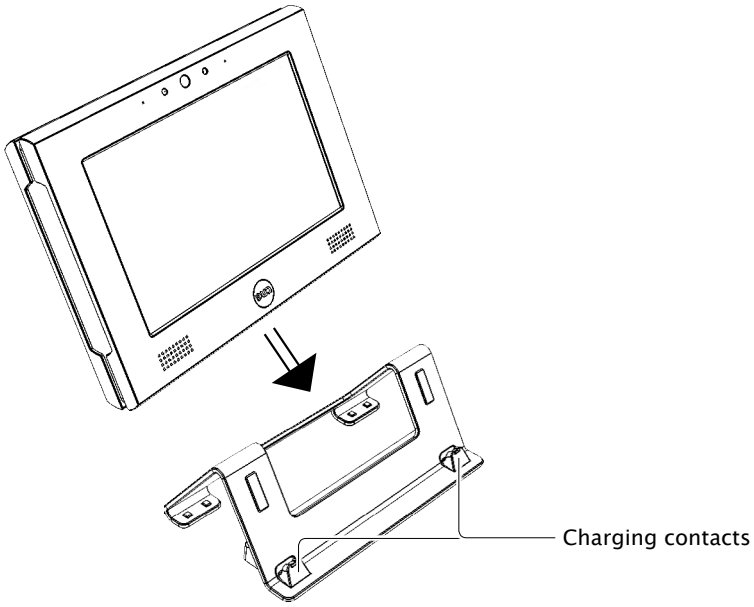
Tabletop Charging Station delivered with the touch panel. It requires power supply 12 VDC with power jack connector delivered with airCUE-7.

Connect power supply power jack connector to the connector located on the bottom side of tabletop charging station and fix cable as described on following picture. Then attach power supply to a power outlet.

Tabletop Charging Station Bottom View



Then put airCUE-7 to the tabletop charging station.



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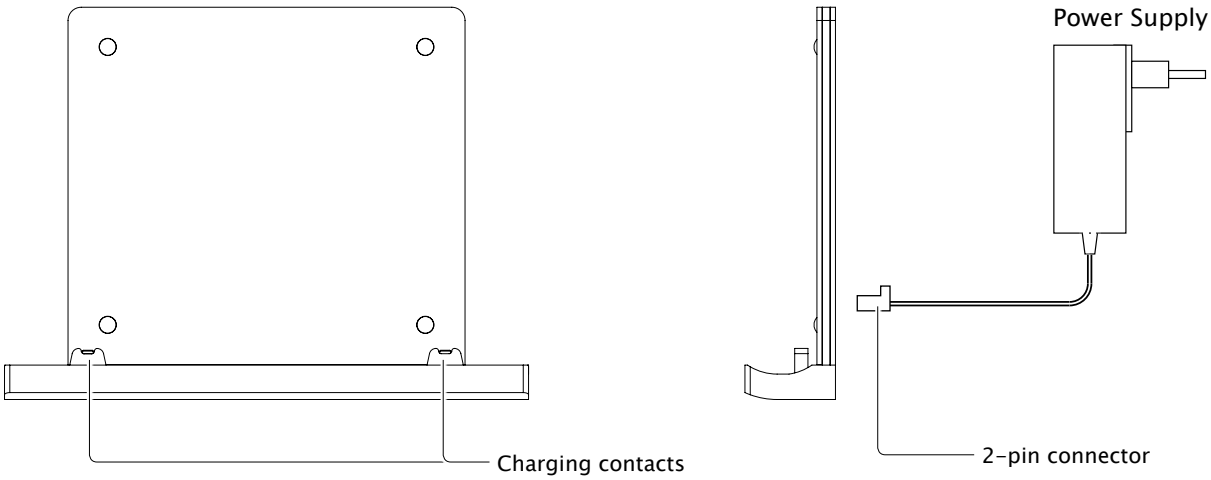
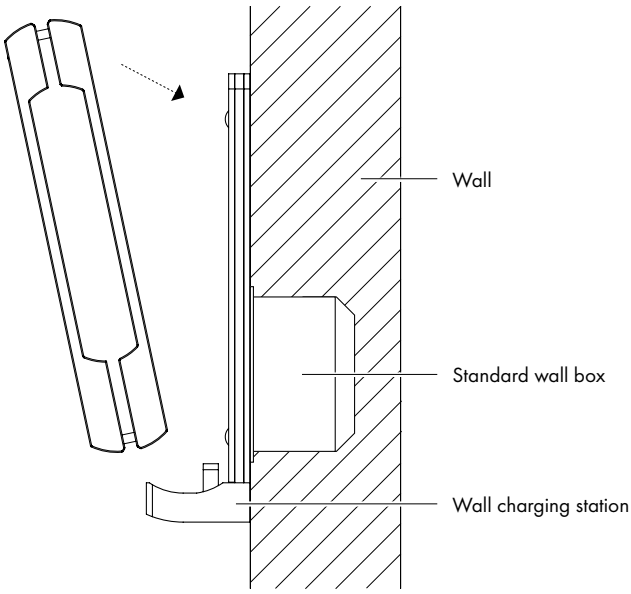
Wall Charging Station

Wall Charging Station 7 is wall station for airCIUE-7 and it has to be ordered separately. Installation is provided on the wall without back box.

The wall station uses power supply 12 VDC on 2-pin Phoenix type connector. Connect power supply 2-pin cable connector to the connector located on the rear side of wall charging station. Then attach power supply to a power outlet.



Then put airCUE-7 to the tabletop charging station. Touch panel is secured by two magnets.

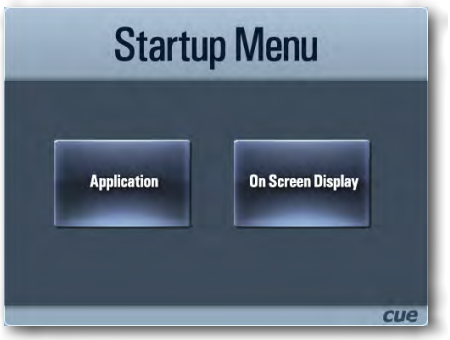


Switch On / Off / Standby

Switch On

To switch on the touch panel

1. Press and hold multifunctional button located on the front panel.
2. Wait for end of booting process. Control application is started automatically. If no application uploaded, On Screen Display startup menu is activated.



Note: This description is valid for default functionality of the button. Functionality can be changed by control application.

Switch Off / Standby

To switch off the touch panel

1. Press multifunctional button located on the front panel. The On Screen Display exit menu is activated.

2. Push Power Off button for power off or Standby button for standby.

Note: This description is valid for default functionality of the button. Functionality can be changed by control application.

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Power Modes

Modes

All touch panel power modes are described in following table.

Mode Name	Display	Wi-Fi	CPU	Description
Power Off by Discharge	Off	Off	Off	Touch panel is switched off because battery is discharged. Recharging is necessary.
Power Off by User	Off	Off	Off	Touch panel is switched off by user. It can be switched on by user.
Power On	On	On	On	The touch panel is fully functional.
Display Off	Off	On	On	The touch panel is functional but display is dark.
Standby	Off	Off	On	This mode saves battery.

Mode Exchange

Following table describes target power modes depending on current power mode and event / application command.

	Current Power Mode				
Event / Command	Power Off by Discharge	Power Off by User	Power On	Display Off	Standby
Low battery	x	Power Off by Discharge	Power Off by Discharge	Power Off by Discharge	Power Off by Discharge
External Power ON	Power On[1]	Power Off with External Power [1]	Power On	Power On	Power On
External Power OFF	x	x	Power On	Power On	Power On
Button Push [2]	x	Power On	Power On	Power On	Power On
Long Press Button [2] for OSD then Exit / Standby	x	x	Standby	Standby	Standby
Long Press Button [2] for OSD then Exit / Power Off	x	x	Power Off by User	Power Off by User	Power Off by User
Touch Display	x	x	Power On	Power On	Power On
Motion Sensor	x	x	Power On	Power On	Power On
Standby Timeout	x	x	Standby	Standby	Standby
Display Off Timeout	x	x	Display Off	Display Off	Standby
Command Standby	x	x	Standby	Standby	Standby
Command PowerOff	x	x	Power Off by User	Power Off by User	Power Off by User
Command Display.On	x	x	Power On	Power On	Power On
Command Display.Off	x	x	Display Off	Display Off	Standby

[1] New mode is indicated on the screen.

[2] For default functionality of the button. Functionality can be changed by control application.

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Factory Default and System Default

Configuration

Every device shipped from the factory is set according to this table, Factory Default column.

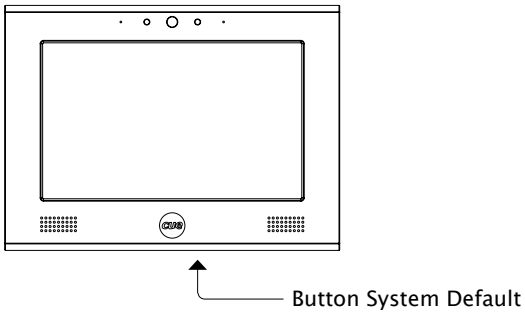
			Factory Default	System Default
Configuration	Identification	Name	Empty	Not changed
	IP settings	Host name	Empty	Not changed
		IP address	192.168.1.128	192.168.1.128
		Subnet mask	255.255.255.0	255.255.255.0
		Default gateway	192.168.1.1	192.168.1.1
		SSID	Empty	Not changed
		Security type	None	Not changed
		Security key	None	Not changed
	DNS	Primary DNS server	Empty	Not changed
		Secondary DNS server	Empty	Not changed
Date and time	Date and Time	Day, month, year	Real	Not changed
		Hour, minute, second	Real	Not changed
		Time zone	(UTC) Coordinated Universal Time	Not changed
	Internet clock	Use Internet clock	Not	Not changed
		Primary NTP server	Empty	Not changed
		Secondary NTP server	Empty	Not changed
Applications			Empty	Not changed
File storage			Empty	Not changed
System	Firmware		Current version	Not changed
Password			Empty	Empty

Restoring

The main purpose of this functionality is to regain connection with lost password or unknown IP settings.

To restore the system default configuration, provide following steps

1. Press button System Default located on the bottom panel and hold it when screen lights.



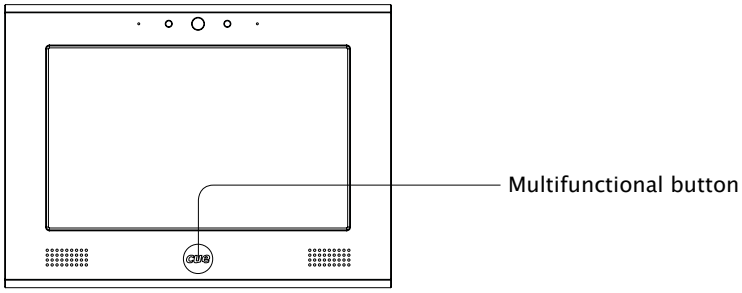
2. System default configuration is restored according table above.

Setup

Wireless Communication Settings

Provide following steps

1. Press multifunctional button to switch on the touch panel.

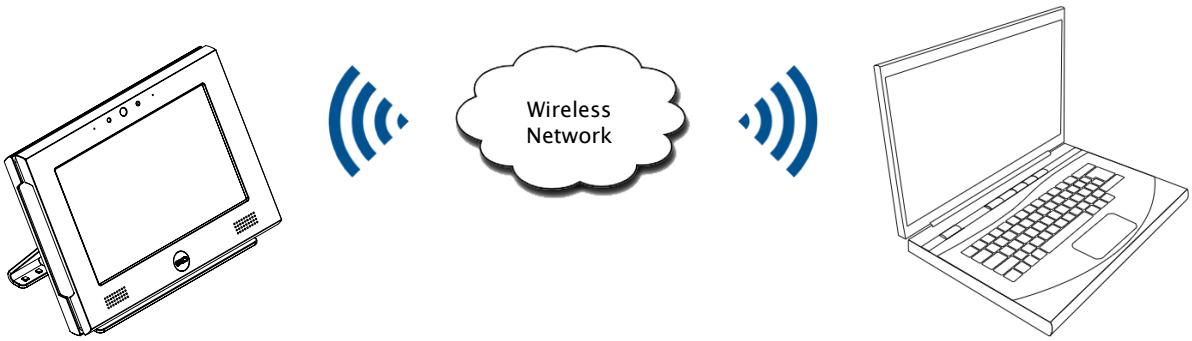


2. Press button on front panel again to activate On Screen Display (OSD).
3. Select IP Settings screen.

4. Set IP Address, Subnet Mask, Default Gateway, SSID, Security Type and Security Key corresponding to your wireless network.

PC Connection

For direct PC connection use wireless network.



Access Admin Web

Run the Internet browser on your PC and type in the touch panel IP address (factory default 192.168.1.128 or IP address set in previous step).

If password protection is used, the Admin login web page will be displayed. If no, the configuration page is displayed.

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Upload User Application

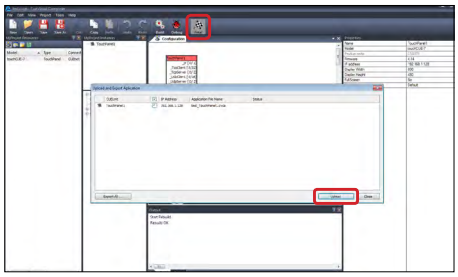
Overview

User control application is dedicated to control and it is programmed by Cue Visual Composer programming tools.

Using Cue Visual Composer

Steps are

1. Connect touch panel to your computer as described in chapter Setup / PC Connection.
2. Run Cue Visual Composer on your PC.
3. Open appropriate project in Cue Visual Composer. It's necessary to have appropriated touch panel properly inserted and configured.
4. Use tool bar button Final to open Upload and Export Application dialog box.

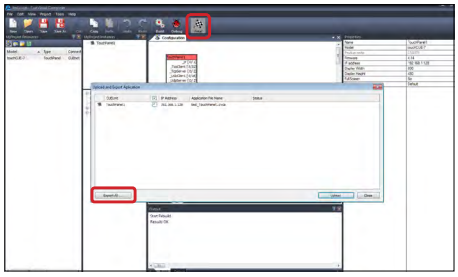


5. Be sure your touch panel is checked.
6. Use button Upload to start application upload.
7. If touch panel firmware isn't actual it will be uploaded automatically first and then application upload will be finished.

Using Admin Web

Steps are

1. Run Cue Visual Composer on your PC.
2. Open appropriate project in Cue Visual Composer. It's necessary to have appropriated touch panel properly inserted and configured.
3. Use tool bar button Final to open Upload and Export Application dialog box.



4. Be sure your touch panel is checked.
5. Use button Export All... to export application and store it in file *.cvca.
6. Connect touch panel to your computer as described in chapter Setup / PC Connection.
7. Run the Internet browser on your PC and type in the same touch panel IP address as you see in Cue Visual Composer project, window Properties / IP address.
8. Go to page System and check current firmware version. In case there is no actual firmware version in touch panel, upload firmware version that corresponds to firmware version in the Cue Visual Composer project..
9. Go to page Applications and upload application file *.cvca.
10. Start uploaded application using button Start.

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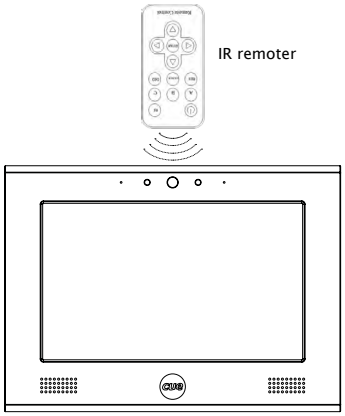
IR Capture

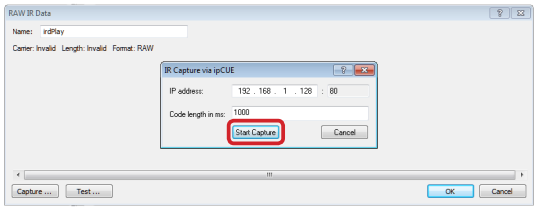
All models of cuenium² touch panels have possibility to capture IR codes. This is the same functionality as some ipCUE controllers have. Captured IR codes can be used in all types of controllers and interfaces capable to send IR codes.

Steps are as follows

1. Connect the touch panel to your PC as described in the chapter Setup / PC Connection.
2. Arrange IR remoter and touch panel as described below.



3. Start Cue Visual Composer and capture IR codes by standard way.
4. Push Start Capture button in Cue Visual Composer and then press appropriate button on IR remoter



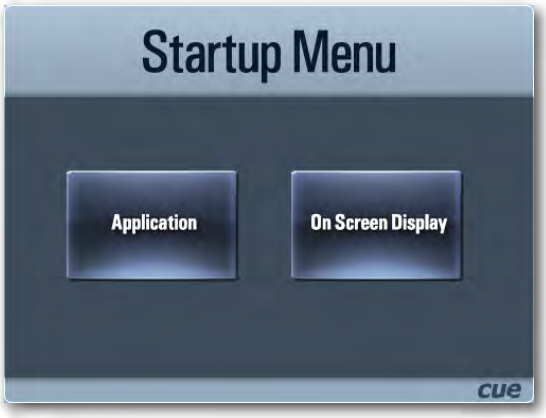
5. Instructions and messages are displayed on the touch panel and in the Cue Visual Composer.
6. If message “Signal is too weak“ is displayed, change position of IR remoter and try again.

On Screen Display

Access On Screen Display

The multifunctional button located on front panel shows On Screen Display. Startup Menu is displayed automatically if no application is running.

Startup Menu

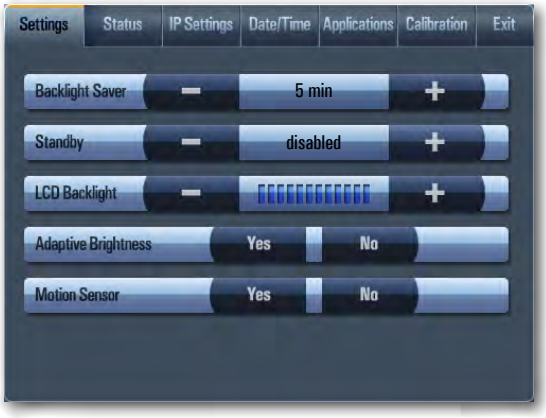


The Startup Menu is activated if no application is running.

Application button starts downloaded application.

On Screen Display button launches menu described below.

Settings



The Backlight Saver will switch off automatically display backlight. Time in minutes can be set by buttons – and +. Time set to 0 means that Backlight Saver is disabled.

Standby mode will be reached automatically if enabled – time is set to specific value. By decreasing time (button –) you can set disabled.

LCD Backlight sets display backlight level.

If Adaptive Brightness is switched to Yes, the light sensor automatically adjusts display backlight according ambient light level.

If Motion Sensor is switched to Yes, the Motion Sensor resumes touch panel from Backlight Saver mode automatically.

Status

This page shows current status of the touch panel.

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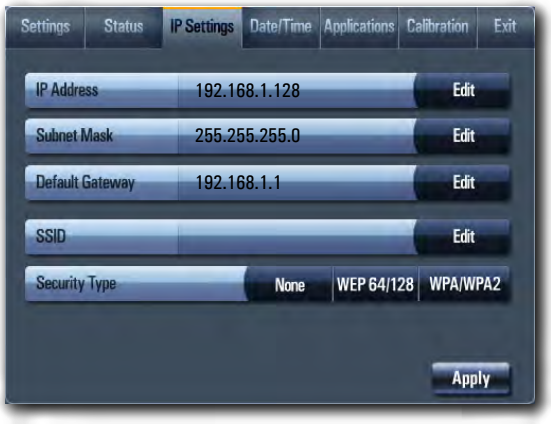
IP Settings



This page is used for communication parameters setting. The touch panel uses standard internet protocol (IP) communication parameters. Certain parameters can be reset by the user. On start up, this page will display current IP address. Carefully note this addressing information (and any changes you elect to make to the IP address, subnet mask, or default gateway). This information must be entered into the Cue Visual Composer program written for your specific application. For control systems with more than one unit, a unique IP address must be given to each CUEunit.

For setting select appropriate field using Edit button and then use numeric keypad.

Be sure to click the Apply button for any changes to become effective.

Date/Time

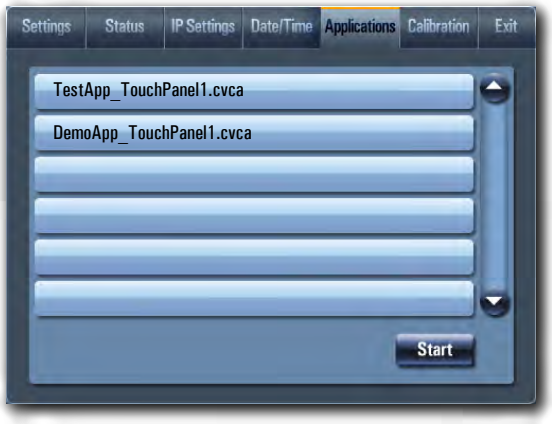
This page is used for setting Date/Time parameters.

The current date and time can be set. For setting please select appropriate field using Edit button and then use numeric keypad.

The time zone box can be selected to enter from the list activated by button Edit.

Rest of the page is used for synchronization of the CUEunit's date and time with an internet clock. Select Yes for Use Internet clock. Next, enter the IP addresses (or complete address name) of the primary and secondary NTP servers.

Applications



This screen is used for selection, start and stop of uploaded applications. All uploaded applications are listed on this page.

Select application and press button Start. A "running flag" denotes the active application. Active application starts automatically after switch on the unit. The running application can be stopped via the Stop button.

Files are uploaded from a personal computer to the touch panel using Cue Visual Composer software or using Admin Web.

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Exit

On this page the product name, product code and current firmware version are displayed.

Button Standby activates Standby power mode.

Button Power Off switches touch panel off (Power off mode).

Button Exit closes On Screen Display.

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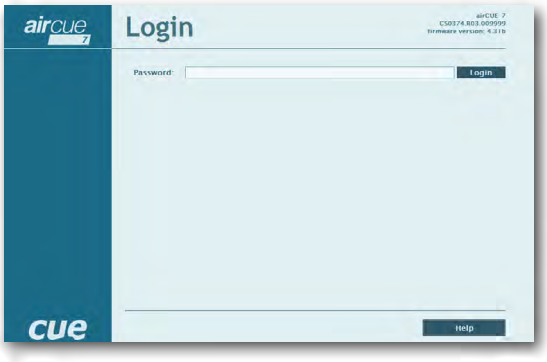
Admin Web

Access Admin Web

Run the Internet browser on your PC and type in the touch panel IP address. Factory default IP address is 192.168.1.128. The default password is empty.

Login



This screen isn't displayed if password is empty (factory default status).

If password isn't empty, you have to login at first for operating with your CUEunit via these web pages.

Enter your password into the Password box and click the Login button to enter the CUEunit web pages.

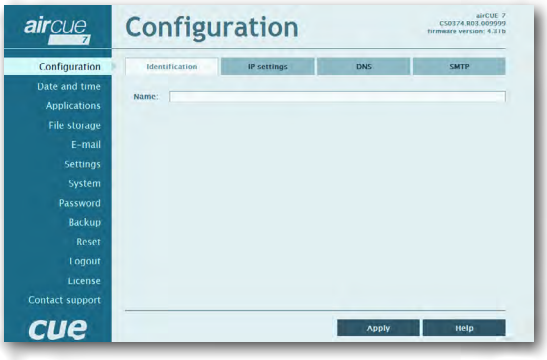
Remember that the password is case sensitive. For changing your password use the Password menu after you are logged in.

Logout

This screen isn't displayed if password is empty (factory default status).

Configuration

Identification

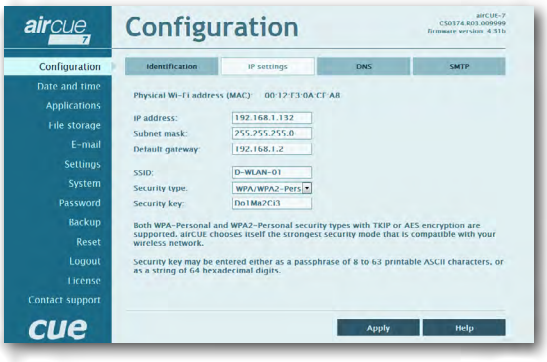


Each CUEunit can be identified by a unique identification name. Unique names are most useful in applications requiring more than one CUEunit. This enables programmers and installers to reference CUEunits with logical, user friendly names, like “boardroom,” “lobby,” etc.

To set the CUEunit identity, enter the unique name you wish to use in the Name box.

Be sure to click the Apply button for any changes to become effective!

IP Settings



This page is used for setting the communication parameters and Wi-Fi settings. The unit uses standard internet protocol (IP) communication parameters. Certain parameters can be reset by the user. On start up, this page will display the airCUE-7’s given: Physical LAN and Wi-Fi addresses (MAC), Current IP address, Current subnet mask, Current default gateway. Carefully note this addressing information (and any changes you select to make to the IP address, subnet mask, default gateway). This information must be entered into the CUE System Director® program written for your specific application. For control systems with more than one airCUE-7, a unique IP address must be given to each airCUE-7.

Insert an SSID (Extended Service Set ID). It is the name of the network you want to access. It is used to identify different wireless networks. It is case-sensitive and must not exceed 32 alphanumeric characters, which may be any keyboard character.

Select a security mode WPA2 (Wi-Fi Protected Access) or WEP 64/128 (Wired Equivalent Privacy 64-bit/128-bit) or None.

When WPA/WPA2 is selected, insert a WPA Security key (pre-shared key). It may be entered using a passphrase of 8 to 63 printable ASCII characters, or directly as a string of 64 hexadecimal digits. Both WPA-Personal and WPA2-Personal security types with TKIP or AES encryption are supported. airCUE chooses itself the strongest security mode that is compatible with your wireless network.

When WEP 64/128 is selected, insert a WEP key. It may be entered either as a string of 10 or 26 hex digits, or as a password of 5 or 13 printable ASCII characters. Only one WEP key is supported. airCUE chooses itself the authentication method “Open system” or “Shared key”.

Be sure to click the Apply button for any changes to the IP settings to become effective!

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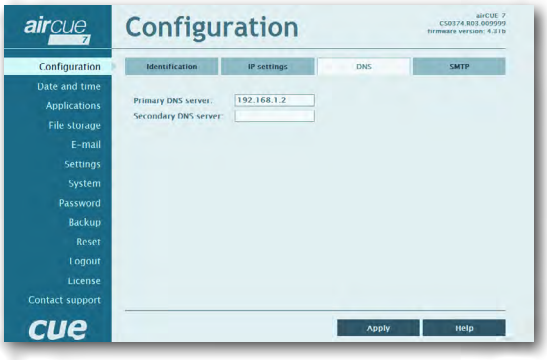
DNS



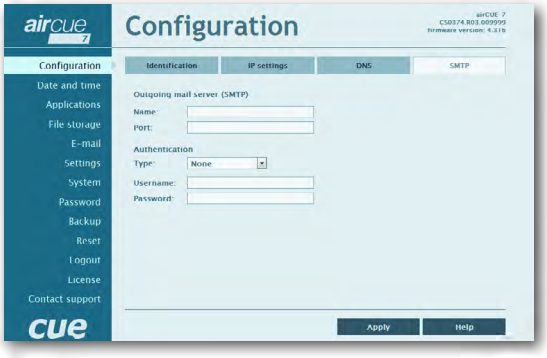
This page is used for setting parameters of your CUEunit's DNS server.

On start up, this page will display the CUEunit's given Current primary DNS server, Current secondary DNS server. You can reset the primary DNS server and secondary DNS server manually by entering your changes into the appropriate boxes.

DHCP is not supported in this release.

Be sure to click the Apply button for any changes to become effective!

SMTP



This page is used for setting parameters of SMTP server. Set a name or an address and the port of your SMTP server.

The SMTP server and port are used by the XPL2 commands EmailSend and PresetEmailSend.

Be sure to click the Apply button for any changes to become effective!

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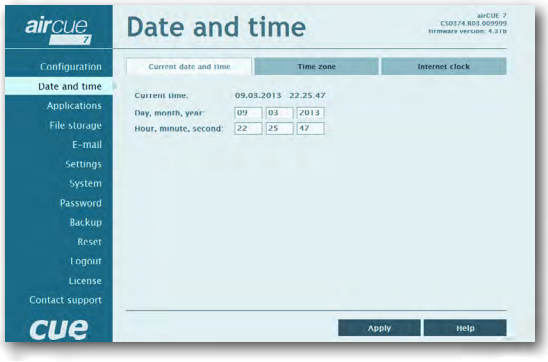
Date and Time

Current Date and Time



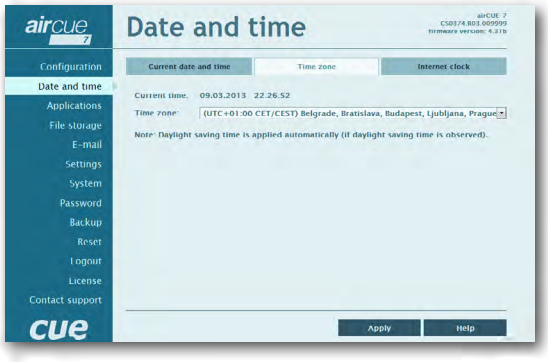
This page is used for setting the time clock on your CUEunit. The current date, time, and time zone are shown on the Current time line.

The applicable boxes can be selected to enter changes to the

- date: day/month/year,
- time: hour/minute/second.

Be sure to click the Apply button for any changes to become effective!

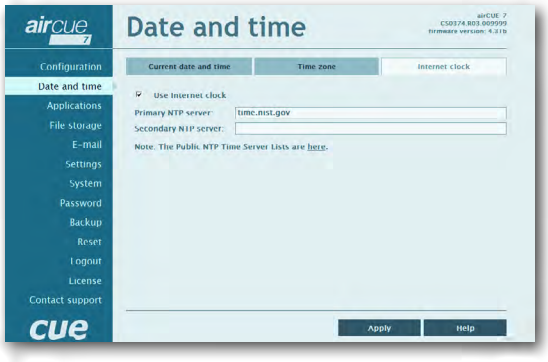
Time Zone



This page is used for setting the time zone on your CUEunit. The current date, time, and time zone, are shown on the Current time line. The time zone box can be selected to enter changes to the Time zone.

Be sure to click the Apply button for any changes to become effective!

Internet Clock



This page is used for synchronization of the CUEunit's date and time with an internet clock. Begin by selecting the check box for Use Internet clock. Next, enter the IP addresses (or complete address name) of the primary and secondary NTP servers. Use the Primary NTP server and Secondary NTP server boxes for this purpose.

Be sure to click the Apply button for any changes to the internet clock to become effective!

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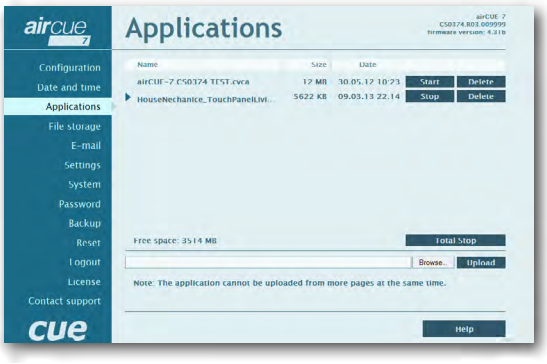
Applications



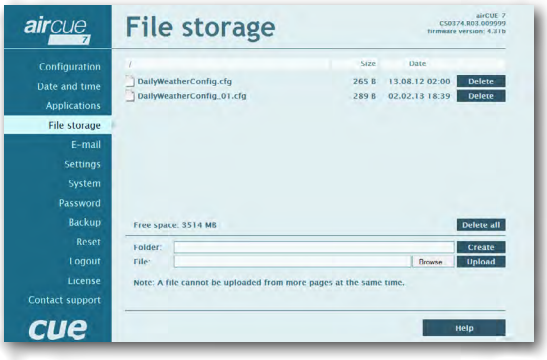
This page is used for uploading compiled Cue Visual Composer programs to your CUEunit.

All uploaded applications are listed on this page, along with their file properties: file name/file size/date. The CUEunit has a generous memory; unused free space is shown at the bottom of this page. CUEunit also permits other service functions like deleting files, downloading programs back to a personal computer, and starting/stopping specific applications.

A “running flag” denotes the active application. The running application can be stopped via the Start/Stop button. Likewise, a stopped application can be restarted with the Start/Stop button.

Files are uploaded from a personal computer to the CUEunit by selecting the desired application program, and clicking the Upload button. Files are downloaded from the CUEunit to a personal computer by clicking the File name. Files are easily deleted with the Delete button. The button Total stop stops a running application. This application will not be automatically started after reset.

File Storage



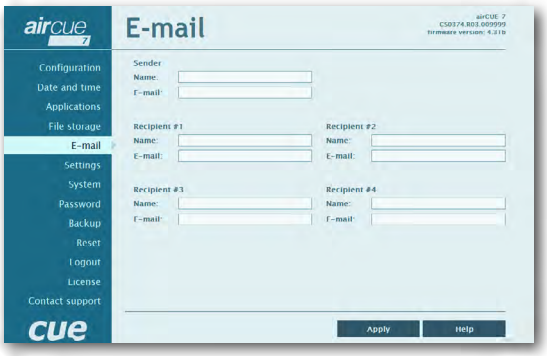
The CUEunit’s generous memory can be used as an auxiliary file storage device. This is helpful for storing presets, in archiving electronic manuals, pdf files, and other support documentation. File storage is managed via the file storage page.

A list of existing files, folders, and their properties is shown. To delete a file or a folder, click the Delete button on the corresponding line. To delete all files and folders from the current folder, click the Delete All button.

To create a new folder, enter a name for the new folder, and click the Create button. To upload a file, select the desired file, and click the Upload button.

Note: Files are automatically compressed for the CUEunit’s internal file system. Accordingly, the size of your uncompressed file before storing may not match the decrease of free space shown on the CUEunit.

E-mail



This page is used for setting parameters of e-mail parameters and recipients addresses.

The SMTP server must be set. See the Configuration/SMTP setting.

The sender Name and E-mail are addresses of your CUEunit. The sender Name and E-mail are used by the XPL2 commands EmailSend and PresetEmailSend.

The recipient Names and E-mails are addresses of recipients, where e-mails will be sent using the XPL2 command PresetEmailSend.

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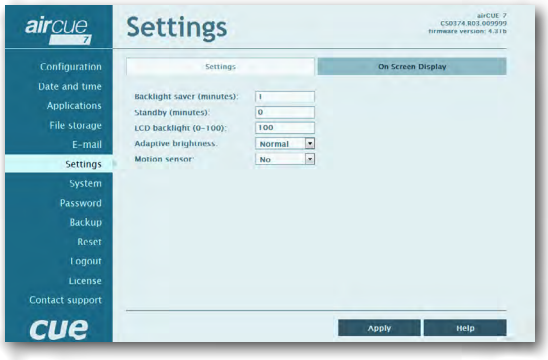
Settings

Settings



The Backlight Saver will switch off automatically display backlight. Time in minutes can be set. Time set to 0 means that Backlight Saver is disabled.

Standby mode will be reached automatically if enabled – time is set to specific value. Time set to 0 means that Standby is disabled.

LCD Backlight sets display backlight level.

If Adaptive Brightness is selected to Dark, Normal or Bright, the light sensor automatically adjusts display backlight according ambient light level.

If Motion Sensor is switched to Yes, the Motion Sensor resumes touch panel from Backlight Saver mode automatically.

On Screen Display

On Screen Display mode can be set to

- Basic – some OSD pages are disabled. This mode doesn't allow to change IP settings, date/time and applications.
- Advanced – all OSD pages are enabled.

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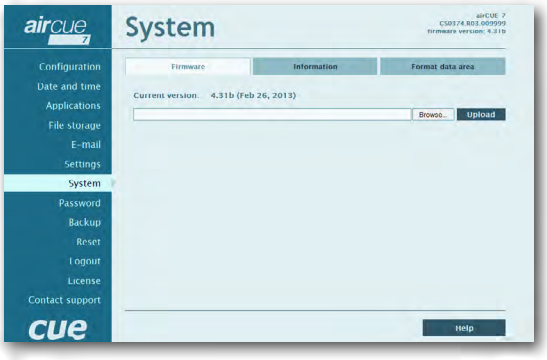
System

Firmware

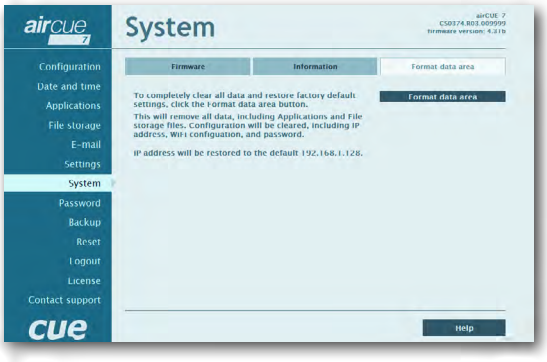


This page is used for updating the CUEunit firmware. The Current version of firmware is shown. To upload new firmware, select the desired version, and click the Upload button.

Information

The page shows basic information about your CUEunit's hardware. The CPU type, CPU frequency, and the flash and RAM memory sizes are shown.

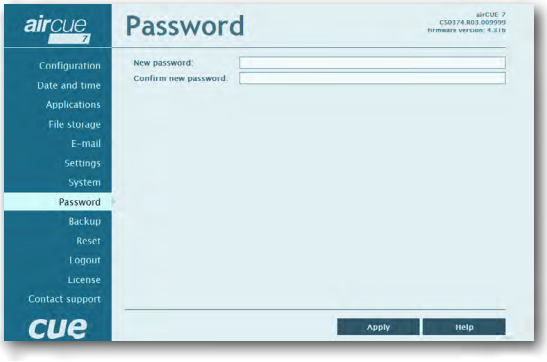
Format Data Area



To completely clear all data and restore factory default settings, click the Format data area button.

This will remove all data, including Applications and File storage files. Configuration will be cleared, including IP address and password. IP address will be restored to the default 192.168.1.128.

Password



A case sensitive password is necessary to login to the admin web pages. Set a new password via the New password box. You must reenter the password in the Confirm new password box. An error message will appear if the confirmation does not match, in which case you should reenter your password again in both boxes.

Finally, the new password is implemented by clicking the Apply button.

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Backup

Backup

The page is used for the backup applications, files and and CUEunit's configuration. The Backup copies all Applications, Application data, File storage and and CUEunit's settings to the one archive. This archive is saved to the PC. To start the backup process, click the Backup button.

Note: To see the backed-up/restored applications, click the Applications menu. To see backed-up/restored files and folders, click the File Storage menu. The page is used for the backup of all applications, files and folders.

Restore

READ ALL IMPORTANT NOTES THAT FOLLOW BEFORE USING THIS OPERATION!

The page is used for the restoring of all applications, files and folders. Restore copies of all applications, files, and folders from a backup archive on the PC to their corresponding locations on the CUEunit.

To start the restore process, select the desired backup archive, then click the Restore button. The restore process can take up to 10 minutes, depending on the size of the files being restored.

If you want CUEunit's settings will be restored too, check the "Restore configuration" box. The CUEunit's settings are accessible via the Configuration, Date and time and Password menus.

Important note: actual password and IP settings will be restored too.

Important note: When restoring files, the running application will be stopped and all applications, files, and folders currently stored in the CUEunit will be deleted! If you want to retain them, use the Backup command before the Restore command.

Note: To see the backed-up/restored applications, click the Applications menu. To see backed-up/restored files and folders, click the File Storage menu.

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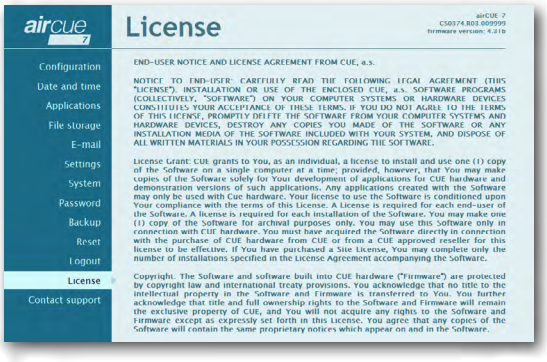
Reset

To restart your CUEunit, click the Reset button.

License



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